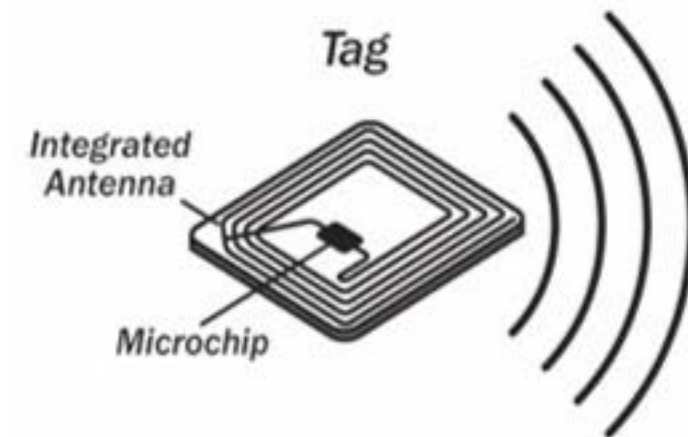


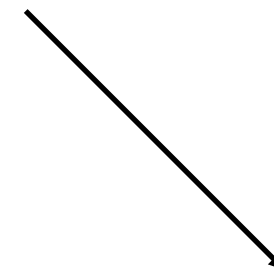


Exploring IoT

A Safer Journey



Network Exploit



What



- Project to explore how IoT can help asset management and other business challenges
- Low cost and simple - iterative learning opportunity
- Safe - not betting the farm
- Led by CFO with support from IMB, OCIO, CGI and CISCO

Why?

- IoT is evolving, and it's important to keep up with the pace of change
- Devices now have built in NFC capability (Apple unlocking!)
- Sensors are falling in price, and new solutions are appearing all the time
- Asset management is an area that provides opportunities to test IoT and learn
- We are constantly looking for new, innovative and cost-effective management methods

How?

Phase 1:

- Used existing WAPS and CISCO Software
- Pilot with different RFID tags to understand hardware

Phase 2:

- Develop simple, effective GUI for facilities use
- Leverage learning

Today



Activity Map

19 APs, 43 Associated Clients, 126 Probing Only Clients, 0 Zones, 0 Beacons, 12 Interferers, 1 RFID Tags



Tomorrow



- **Asset tracking**
- **Building Occupancy Management**
- **Smart Project Collaboration**
- **Personal Access control**
- **Hot-desking**
- **Integration with third party systems**
- **Cognitive Services**
- **People finding**



- Optimized HVAC and building management systems
- Comfort that follows
- Personal Sustainability
- CSR Reporting
- Predictive Energy Optimization
- Continuous Commissioning



- **Asset performance services**
- **Smart Service calls**
- **Predictive maintenance**
- **Remote inspections**
- **Continuous Commissioning**
- **Smart service call**



- FlexProperty®
- Facilities Management
- Rent Rolls
- Create and maintain building and floor structures in 3D
- Property details

What then?

- Leverage learning and identify new opportunities
 - Smart sensors - smart building technology
 - Improved asset utilization
 - Better space utilization